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***         User ID:              d26fmew                           ***
***         User Name:            MARK E. WALLERSON                  ***
***         User Phone:           0003058581                        ***
***         Workstation Id:       WSHBUEUC                          ***
***         Printer Id:           wemtptr                           ***
***         Date:                 Mon Feb  2 1998                   ***
***         Time:                 14:59:51                          ***
***         Job #                 0211                              ***
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*                                                             *
*          Welcome to MESSENGER (APS Text) at USPTO           *
*                                                             *
*                                                             *
*    The USPTO production files are current through:          *
*    JAN 27 1998 for U.S. Patent Text Data.                   *
*    JAN 27 1998 for U.S. Current Classification data.        *
*    JAN 27 1998 for U.S. Patent Image Data.                  *
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*       * PLEASE USE 305-9000 FOR NEW TELEPHONE NUMBER *       *
*                                                             *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* More U.S. patent data is now available on APS.  The new     *
* USOCR file contains patents issued in 1970, plus some       *
* patents that were missing from the USPAT file.  See the     *
* Patents News Folder under the Public Folders in e-mail for  *
* more information on using the new file.  Thank you.         *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
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*  such, of the data.                                         *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*               Help Desk --> 703-305-9000                    *02 FEB 1998 1
4:55:38            U.S. Patent & Trademark Office          P0002
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*    The Help Desk is staffed for APS support 7 days/week.    *
*       Monday through Friday:      6:30am - 9:00pm           *
*       Saturday, Sunday, Holidays: 8:30am - 5:00 pm          *
*                                                             *
*    The Help Desk staff at this number will handle all APS   *
*    related questions.                                       *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*    >>>>>>>>>>>> NEW SUNDAY HOURS !!! <<<<<<<<<<<<<           *
*                                                             *
*    The APS is available:                                    *
*            6:30am - 9:00pm Monday through Friday            *
*            7:30am - 5:00pm Saturday, Sunday, Holidays       *
*                                                             *
*       APS is unavailable Thanksgiving Day, Christmas Day,   *
*       and New Year's Day.                                   *
*                                                             *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
FILE 'USPAT' ENTERED AT 14:55:38 ON 02 FEB 1998

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*               W E L C O M E    T O    T H E                 *
*          U. S.   P A T E N T   T E X T   F I L E            *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
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=> s print###(5a)status

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             230034 PRINT###
          69925 STATUS
           1748 STATUSES
          70172 STATUS·
                 (STATUS OR STATUSES)
L1          1539 PRINT###(5A)STATUS


=> s bidirection## or bi(2a)direction##
             23153 BIDIRECTION##
          50902 BI
         108936 BIS
         155383 BI
                 (BI OR BIS)
        1064334 DIRECTION##
          13493 BI(2A)DIRECTION## ·
L2         33912 BIDIRECTION## OR BI(2A)DIRECTION##


=> s l2(8a)print###
             230034 PRINT###
L3           661 L2(8A)PRINT###


=> s l1 and l3
L4           116 L1 AND L3


=> s scan#### or read###
             171895 SCAN####
        1088043 READ###
L5      1141988 SCAN#### OR READ###


=> s l4 and l5
L6           108 L4 AND L5


=> s computer or pc or host
          191357 COMPUTER
           47597 COMPUTERS
          203407 COMPUTER
                 (COMPUTER OR COMPUTERS)
           29604 PC
            2626 PCS
           31022 PC
                 (PC OR PCS)
           55183 HOST ,
            7525 HOSTS
           56218 HOST
                 (HOST OR HOSTS)
L7        254200 COMPUTER OR PC OR HOST


=> s l6 and l7
L8           100 L6 AND L7


=> d his


     (FILE 'USPAT' ENTERED AT 14:55:38 ON 02 FEB 1998)
                SET PAGE SCROLL
L1          1539 S PRINT###(5A)STATUS
L2         33912 S BIDIRECTION## OR BI(2A)DIRECTION##
L3           661 S L2(8A)PRINT###
L4           116 S L1 AND L3
L5       1141988 S SCAN#### OR READ###
L6           108 S L4 AND L5
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L7        254200 S COMPUTER OR PC OR HOST
L8           100 S L6 AND L7

=> s 15(5a)status
          69925 STATUS
           1748 STATUSES
          70172 STATUS
                (STATUS OR STATUSES)
L9          8058 L5(5A)STATUS

=> s 18 and 19
L10           55 L8 AND L9

=> d 110 1-55
```

1. 5,701,411, Dec. 23, 1997, Automatic detection of network hardware connection; Duc Tran, et al., 395/828 [IMAGE AVAILABLE]

2. 5,699,494, Dec. 16, 1997, Remote replication of printer operator panel; Carl Lee Colbert, et al., 395/114, 112, 113 [IMAGE AVAILABLE]

3. 5,696,899, Dec. 9, 1997, Method and apparatus for adaptively determining the format of data packets carried on a local area network; George A. Kalwitz, 370/254, 465, 466, 467, 469, 908; 395/828, 835 [IMAGE AVAILABLE]

4. 5,694,618, Dec. 2, 1997, Apparatus which transmits a check signal to determine whether a **printer** is capable of **bidirectional** data transmission and remotely setting the **printer** operating environment accordingly; Masaaki Hibino, 395/866, 828, 834, 853, 882 [IMAGE AVAILABLE]

5. 5,680,645, Oct. 21, 1997, System for executing first and second independently executable programs until each program relinquishes control or encounters real time interrupts; William C. Russell, et al., 395/868, 676 [IMAGE AVAILABLE]

6. 5,666,558, Sep. 9, 1997, **Bidirectional** parallel protocol having **computer** indicates to the **printer** the acceptable data format for data transfer; Jeff D. Pipkins, 395/851; 364/235, 235.7, 260.1, 265.1, 930, 935.3, DIG.1, DIG.2 [IMAGE AVAILABLE]

7. 5,657,448, Aug. 12, 1997, System for an interactive network board remotely configurable by selecting from a plurality of functionality defining software, such as a printer server stored in prom; Robert D. Wadsworth, et al., 395/200.5; 364/238.3, 242.94, 927.97, 927.99, 949.4, 975.1, DIG.1, DIG.2; 395/652, 653 [IMAGE AVAILABLE]

8. 5,652,917, Jul. 29, 1997, System for transmitting and receiving combination of compressed digital information and embedded strobe bit between **computer** and external device through parallel printer port of **computer**; Patrick Maupin, et al., 395/888, 500 [IMAGE AVAILABLE]

9. 5,651,114, Jul. 22, 1997, External network adapter for handling normal and alternate channel data over a single **bi**-**directional** channel connected to a **printer**; Peter Stewart Davidson, Jr., 395/20
0.59; 364/235, 242.95,
930, 940.62, 975.1, DIG.1, DIG.2; 395/114, 200.79, 309 [IMAGE AVAILABLE]

10. 5,647,056, Jul. 8, 1997, Method and apparatus for managing access to a networked peripheral; Lorraine F. Barrett, et al., 395/200.5; 333/24R; 340/825.28; 379/412; 395/110, 113, 115, 116, 117, 200.59, 284, 830 [IMAGE

AVAILABLE]

11. 5,636,332, Jun. 3, 1997, Device for controlling printer power down mode for display intensity; Masaaki Hibino, 395/112; 345/147; 364/707 [IMAGE AVAILABLE]

12. 5,623,604, Apr. 22, 1997, Method and apparatus for remotely altering programmable firmware stored in an interactive network board coupled to a network peripheral; William C. Russell, et al., 395/712; 364/276.3, 280.3, 281.9, 962.1, DIG.1, DIG.2; 395/183.14, 200.51, 653; 711/103 [IMAGE AVAILABLE]

13. 5,613,160, Mar. 18, 1997, In an interactive network board, method and apparatus for placing a network peripheral in a default configuration; Andrew J. Kraslavsky, et al., 395/836, 114, 117, 200.8, 828, 835, 839 [IMAGE AVAILABLE]

14. 5,613,096, Mar. 18, 1997, Network protocol sensor; Daniel A. Danknick, 395/500, 651, 831 [IMAGE AVAILABLE]

15. 5,611,046, Mar. 11, 1997, Method and apparatus for interfacing a peripheral to a local area network; William C. Russell, et al., 395/115; 364/DIG.1; 395/828, 835, ·839 [IMAGE AVAILABLE]

16. 5,606,671, Feb. 25, 1997, Serial port using non-maskable interrupt terminal of a microprocessor; Robert D. Wadsworth, et al., 395/286, 735, 891 [IMAGE AVAILABLE]

17. 5,581,795, Dec. 3, 1996, System for transmitting and receiving digital information through parallel printer port of **computer** by using embedding strobe bit in eight bit data of printer port; Patrick Maupin, et al., 395/882; 364/251.3, 260.6, 260.81, 927.95, DIG.1, DIG.2; 395/500 [IMAGE AVAILABLE]

18. 5,568,612, Oct. 22, 1996, Method and apparatus for advertising services of two network servers from a single network node; Lorraine F. Barrett, et al., 395/200.33; 364/DIG.1, DIG.2; 395/200.49 [IMAGE AVAILABLE]

19. 5,557,783, Sep. 17, 1996, Arbitration device for arbitrating access requests from first and second processors having different first and second clocks; Osman O. Oktay, et al., 395/552; 364/228.1, 242.91, 270.4, 271.5, DIG.1; 711/150 [IMAGE AVAILABLE]

20. 5,555,440, Sep. 10, 1996, Parallel interface for connecting data processing devices to one another over bidirectional control lines; Jorg Oppat, 395/892; 364/240, 935.3, DIG.1, DIG.2; 395/306 [IMAGE AVAILABLE]

21. 5,550,997, Aug. 27, 1996, In an interactive network board, a method and apparatus for preventing inadvertent loading of a programmable **read** only memory; Tony K. Ip, et al., 711/103; 364/965.76, DIG.2; 395/113, 200.52, 309 [IMAGE AVAILABLE]

22. 5,550,957, Aug. 27, 1996, Multiple virtual printer network interface; Peter S. Davidson, Jr., et al., 395/114, 112 [IMAGE AVAILABLE]

23. 5,542,071, Jul. 30, 1996, System for determining communication speed of parallel printer port of **computer** by using start timer and stop timer commands within data combined with embedded strobe; Patrick Maupin, et al., 395/500; 364/242.1, 251.4, 271.5, DIG.1; 395/557 [IMAGE AVAILABLE]

24. 5,537,626, Jul. 16, 1996, Apparatus for coupling printer with LAN to
control printer operation by transferring control parameters, **printer
status** data and **printer** configuration d
ata between printer and LAN;
Andrew J. Kraslavsky, et al., 395/828; 364/235, 284.4, 930, DIG.1, DIG.2;
395/200.58, 835, 839 [IMAGE AVAILABLE]

25. 5,537,550, Jul. 16, 1996, Interactive network board for logging
peripheral statistics with logging level commands; William C. Russell, et
al., 395/200.54; 364/264.4, 264.6, 944.9, DIG.1, DIG.2; 395/184.01, 200.8,
835 [IMAGE AVAILABLE]

26. 5,530,862, Jun. 25, 1996, In an interactive network board, method and
apparatus for loading independently executable modules in prom; Robert D.
Wadsworth, et al., 395/651; 364/244.6, 280.2, 281.9, DIG.1 [IMAGE AVAILABLE]

27. 5,507,003, Apr. 9, 1996, Parallel interface protocol for **bidirectional**
communications between **computer** and **printer** using **status** lines for
transmitting data during a reverse channel operation; Jeff D. Pipkins,
395/851; 364/235, 235.7, 260.1, 265.1, 930, 935.3, DIG.1, DIG.2; 395/823
[IMAGE AVAILABLE]

28. 5,477,476, Dec. 19, 1995, Power-conservation system for **computer**
peripherals; David J. Schanin, et al., 395/750.06; 364/273, 273.1, 273.2,
273.3, 273.5, 492, DIG.1 [IMAGE AVAILABLE]

29. 5,438,528, Aug. 1, 1995, Method and apparatus for testing an interactive
network board in a local area network (LAN).; H. Brad Emerson, et al.,
364/580, 481; 370/241, 245; 371/20.1; 395/185.09, 200.54 [IMAGE AVAILABLE]

30. 5,425,135, Jun. 13, 1995, Parallel interface for printer; Tetsuro
Motoyama, et al., 395/114, 101 [IMAGE AVAILABLE]

31. 5,323,393, Jun. 21, 1994, Method and apparatus for obtaining and for
controlling the status of a networked peripheral; Lorraine F. Barrett, et
al., 370/449; 340/825.22 [IMAGE AVAILABLE]

32. 5,239,627, Aug. 24, 1993, **Bi**-**directional** parallel **printer**
interface; James L. Beck, et al., 395/892 [IMAGE AVAILABLE]

33. 5,220,659, Jun. 15, 1993, System for matching data recovery time between
different devices by extending a cycle upon detecting end of cycle; Ronald J.
Larson, et al., 395/500; 364/926.9, 926.91, 927.92, 927.93, 927.94, 927.95,
928, 940, 941, 942, 942.8, 949, 949.1, 950, 950.2, 950.4, 950.5, 952, 952.1,
DIG.2; 395/287, 309, 557 [IMAGE AVAILABLE]

34. 5,193,008, Mar. 9, 1993, Interleaving vertical pixels in raster-based
laser printers; Allen L. Frazier, et al., 358/298; 347/254 [IMAGE AVAILABLE]

35. 5,134,495, Jul. 28, 1992, Resolution transforming raster-based imaging
system; Allen L. Frazier, et al., 358/298; 347/254; 358/296, 456 [IMAGE
AVAILABLE]

36. 5,123,089, Jun. 16, 1992, Apparatus and protocol for local area network;
Michael S. Beilinski, et al., 395/200.67; 364/234, 234.3, 235, 235.7, 236.2,
237.2, 237.4, 237.7, 238.5, 239, 239.7, 240, 240.1, 240.8, 240.9, 241, 241.7,
241.9, 242.6, 242.7, 242.94, 242.95, 259, 259.4, 264, 264.2, 265, 265.1,
266.3, 270, 270.1, 284, 284.1, 284.2, 284.3, 284.4, DIG.1 [IMAGE AVAILABLE]

37. 4,999,654, Mar. 12, 1991, Image forming system; Fumitaka Maruo, et al.,

347/225, 129, 900 [IMAGE AVAILABLE]

38. 4,733,310, Mar. 22, 1988, Paper sheet and envelope feeder apparatus;
Ludwig J. Kapp, et al., 358/300; 399/371 [IMAGE AVAILABLE]

39. 4,716,543, Dec. 29, 1987, Terminal device for editing document and
communicating data; Toshiya Ogawa, et al., 707/205; 364/926.5, 926.7, 926.93,
928.1, 928.2, 930.7, 939, 939.5, 942.8, 943.1, 943.43, 948.11, 948.3, 948.32,
948.4, 948.6, DIG.2 [IMAGE AVAILABLE]

40. 4,651,278, Mar. 17, 1987, Interface process for an all points
addressable printer; Alexander Herzog, et al., 395/117; 364/926.9, 930,
930.4, 931, 931.4, 935, 935.2, 937, 939, 939.3, 940.8, 943, 943.1, 943.9,
944.7, 946.2, 948.1, 957, 957.1, 957.3, 961.2; 400/61, 76 [IMAGE AVAILABLE]

41. 4,452,136, Jun. 5, 1984, Printer subsystem with dual cooperating
microprocessors; William W. Boynton, et al., 101/93.05; 364/926.9, 926.93,
927.2, 927.5, 927.8, 927.92, 927.98, 928, 930, 930.4, 931, 931.4, 931.41,
931.49, 937, 942.8, 943.9, 948.3, DIG.2; 395/112, 114; 400/70, 224, 225,
616.1, 656 [IMAGE AVAILABLE]

42. 4,434,419, Feb. 28, 1984, Cursor control circuit for plural displays for
use in a word processing system; Robert A. Couper, et al., 345/2, 157; 400/83
[IMAGE AVAILABLE]

43. 4,422,070, Dec. 20, 1983, Circuit for controlling character attributes
in a word processing system having a display; Robert A. Couper, et al.,
345/141, 194 [IMAGE AVAILABLE]

44. 4,419,736, Dec. 6, 1983, Teleprinter terminal; Gay A. Christensen, et
al., 364/710.13, 919.5, 926.1, 926.2, 926.7, 926.9, 926.91, 927.8, 928,
928.1, 928.2, 928.4, 928.5, 928.6, 929, 930, 930.4, 930.7, 931.4, 931.47,
932.8, 933.9, 935, 935.2, 935.3, 935.4, 935.45, 935.46, 935.6, 939, 939.5,
940, 940.1, 940.5, 940.81, 941, 942, 942.3, 942.4, 942.5, 942.8, 943.9,
944.9, 945.6, 947, 947.5, 948.1, 949, 949.1, 950, 950.1, 950.4, 958, 958.3,
964, 964.1, DIG.2 [IMAGE AVAILABLE]

45. 4,398,264, Aug. 9, 1983, Circuit to enable foreground and background
processing in a word processing system with circuits for performing a
plurality of independently controlled functions; Robert A. Couper, et al.,
707/530; 364/926.7, 926.9, 926.93, 927.2, 927.3, 927.4, 927.5, 927.61, 927.8,
927.92, 927.95, 928, 928.2, 929, 929.4, 930, 930.3, 931, 931.4, 931.44, 935,
935.2, 935.3, 935.4, 935.42, 936, 939, 939.3, 940, 940.1, 940.2, 940.4, 942,
942.1, 942.3, 942.4, 942.7, 943, 943.1, 943.43, 943.44, 948.1, 949, 949.1,
952, 952.1, 959.1, 960, 960.2, 964.9, 965, 965.76, 965.8, 968, DIG.2 [IMAGE
AVAILABLE]

46. 4,398,246, Aug. 9, 1983, Word processing system employing a plurality of
general purpose processor circuits; John K. Frediani, et al., 707/531;
364/222.2, 225, 225.6, 225.7, 226.1, 228.1, 228.3, 228.4, 228.5, 228.7,
228.9, 229, 229.2, 230, 230.1, 230.2, 230.4, 232.7, 232.9, 234, 234.2, 235,
235.7, 236, 236.2, 237.2, 237.3, 237.5, 238, 238.3, 238.4, 239, 239.7, 241.9,
242.1, 242.3, 242.6, 242.7, 242.91, 246, 246.4, 256.8, 259, 259.4, 260.4,
260.9, 263, 264, 264.6, 265, 265.1, 268.9, 270, 270.4, 271, 271.2, 271.6,
271.8, 273.2, 280, 280.6, 281.3, 281.7, 285, 285.3, DIG.1 [IMAGE AVAILABLE]

47. 4,393,377, Jul. 12, 1983, Circuit for controlling information on a
display; Robert A. Couper, et al., 345/127 [IMAGE AVAILABLE]

48. 4,392,197, Jul. 5, 1983, Print control circuit for a word processing

system; Robert A. Couper, et al., 707/531; 364/222.81, 222.82, 225, 225.6,
225.8, 230.6, 232.93, 234, 234.2, 234.4, 235, 235.7, 237.2, 237.3, 237.5,
238, 238.3, 242, 242.3, 242.31, 242.6, 242.91, 244, 246.91, 252, 259, 259.9,
926.9, 926.93, 927.2, 927.4, 927.5, 927.8, 927.92, 927.95, 927.99, 928,
928.1, 929, 929.4, 929.5, 929.61, 930, 931, 931.1, 931.44, 932.8, 935, 935.2,
935.4, 935.42, 936, 939, 939.3, 942.8, 943, 943.1, 943.2, 943.3, 947, 947.2,
948, 948.4, 952, 952.1, 962, 962.1, 964, 964.4, 964.6, 965, 965.76, 975.2,
DIG.1, DIG.2 [IMAGE AVAILABLE]

49. 4,387,424, Jun. 7, 1983, Communications systems for a word processing
system employing distributed processing circuitry; John K. Frediani, et al.,
395/200.55; 364/222.81, 222.82, 223, 224, 224.1, 225.6, 225.7, 225.8, 228.5,
229, 229.2, 229.4, 230, 230.1, 230.3, 230.4, 231.4, 231.6, 232.7, 232.8,
232.9, 234, 234.1, 234.2, 234.3, 234.4, 235, 235.2, 235.3, 236, 236.2, 237.2,
237.3, 237.4, 238, 238.3, 238.4, 238.5, 239, 239.1, 239.2, 239.6, 239.7, 240,
240.1, 240.2, 242.3, 242.31, 242.6, 242.91, 244, 244.6, 244.7, 246, 246.2,
246.3, 246.91, 248.1, 251, 251.4, 252, 259, 259.4, 259.9, 260.4, 260.9,
262.4, 262.8, 270, DIG.1; 395/200.31 [IMAGE AVAILABLE]

50. 4,353,653, Oct. 12, 1982, Font selection and compression for printer
subsystem; Lee T. Zimmerman, 400/70; 364/919.5, 920, 926.7, 926.9, 927.83,
930, 930.4, 931, 931.5, 935, 935.2, 935.5, 937, 938, 938.4, 940, 940.1,
942.3, 942.5, 943, 943.1, 943.44, 943.5, 943.9, 944.9, 948.1, 948.2, 949,
949.3, 957, 957.1, 962, 962.4, 963, 963.3, 964, 964.1, DIG.2; 400/55, 109,
110, 171, 225, 248, 616.1 [IMAGE AVAILABLE]

51. 4,353,298, Oct. 12, 1982, Partial line turnaround for printers; Gregory
N. Baker, et al., 101/93.05; 364/920, 926.1, 926.3, 926.9, 927.83, 930,
930.7, 937, 939, 939.2, 939.4, 940, 940.1, 942.3, 942.5, 943, 943.44, 943.5,
943.9, 944.9, 948.1, 948.2, 949, 957, 957.1, 957.8, 963, 963.3, DIG.2;
400/70, 225, 323, 616.1 [IMAGE AVAILABLE]

52. 4,308,579, Dec. 29, 1981, Multiprocessor parcel postage metering system
having serial data bus; Daniel F. Dlugos, 705/407; 364/222.2, 225, 226.8,
228.4, 228.5, 235, 237.2, 240, 240.1, 240.8, 240.9, 241, 256, 256.1, 259,
259.5, 260, 260.1, 262, 262.2, 265, 265.1, 267, 267.5, 271, 271.2, 284,
284.3, DIG.1; 395/185.02 [IMAGE AVAILABLE]

53. 4,304,497, Dec. 8, 1981, Detection of multiple emitter changes in a
printer subsystem; Barry R. Cavill, et al., 400/583; 364/926, 926.9, 927.2,
927.5, 927.8, 928, 928.2, 929.3, 929.4, 930, 930.4, 931, 931.4, 937, 942.8,
943.9, 947, 947.2, 948.2, 948.3, 959.1, 964, 965, 965.4, 965.5, DIG.2;
400/61, 616.1 [IMAGE AVAILABLE]

54. 4,279,199, Jul. 21, 1981, Print head image generator for printer
subsystem; Abelardo D. Blanco, et al., 101/93.05; 364/926, 926.9, 927.2,
927.5, 927.8, 927.83, 928, 929.3, 930, 930.4, 931, 931.4, 935, 935.2, 935.5,
937, 939, 939.6, 942.7, 942.8, 943, 943.9, 945.5, 945.6, 947, 947.4, 951.1,
951.4, 959.1, 964, 965, 965.4, 965.5, DIG.2; 400/57, 124.02, 225, 616.2
[IMAGE AVAILABLE]

55. 4,261,039, Apr. 7, 1981, Microprocessor controlled positioning system;
Gregory N. Baker, et al., 395/105; 101/93.05; 318/594; 364/167.01; 400/57,
70, 225, 583.4, 616.1 [IMAGE AVAILABLE]

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